

CLAIMS

1. A flexible display (1) comprising:

- 5 - a flexible support (2);
- a plurality of discrete light sources (3), fastened to the flexible support (2) so as to be spaced apart thereon;
- light-source supply/control means (22, 23);
- 10 - means, included in the flexible support, for transmitting, between the supply/control means (22, 23) and the discrete light sources, supply/control signals for the discrete light sources; and
- a diffusing element (4) that covers the light sources (3) so as to diffuse the light coming from two adjacent discrete light sources in order to produce a substantially continuous luminous display on one face (4a) of the diffusing element opposite the light sources.

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2. The display as claimed in claim 1, in which the light sources (3) are fastened to the flexible support (2) in a matrix arrangement.

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3. The display as claimed in claim 1, which includes a covering element (5), which covers said face (4a) of the diffusing element while letting light pass through it.

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4. The display as claimed in one of the preceding claims, in which the light sources (3) can be individually controlled in order to emit light.

5. The display as claimed in any one of the preceding claims, in which:

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- the flexible support (2) is a support made of a fabric comprising woven yarns that include electrically conducting wires (21);
- the supply/control signal transmission means

(24, 25) comprise said electrically conducting wires; and

- the discrete light-emitting sources (3) are soldered to the conducting wires (21).

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6. The display as claimed in one of the preceding claims, in which the light sources (3) comprise light-emitting diodes soldered to the flexible support.

10 7. The display as claimed in claim 6, in which the light-emitting diodes (3) are embedded in a flexible resin (9).

15 8. A textile structure (7) that includes a display (1) as claimed in one of the preceding claims.

9. The textile structure (7) as claimed in claim 7, which has a pocket (8) provided with a lower piece and with an upper piece (10) that let light pass through
20 it, at least the flexible support (2) and the plurality of discrete light sources (3) of the display being held in place between said lower and upper pieces.

10. The textile structure (17) as claimed in claim 8,
25 in which the pocket (8) includes means (11) for extracting the display.

11. The textile structure as claimed in claim 8 or claim 9, in which the upper piece (10) incorporates the
30 diffusing element of the display.

12. The textile structure as claimed in any one of claims 8 to 10, in which the upper piece (10) includes, on the surface, a covering element (5) that covers said
35 face (4a) of the diffusing element.